

# SAFETY DATA SHEET



Fuel Oil, Elevated Temp.

## Section 1. Identification

**GHS product identifier** : Fuel Oil, Elevated Temp.  
**Other means of identification** : Carbon Black Oil, Fuel Oil, Heating Oil

**Relevant identified uses of the substance or mixture and uses advised against**

Not available.

**Supplier's details** : Western Refining Company LP  
 123 W. Mills Avenue  
 El Paso, TX 79901  
 Tel: 915-534-1488

**Emergency telephone number (with hours of operation)** : CHEMTREC, U.S. : 1-800-424-9300 International: +1-703-527-3877 (24/7)

## Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : CARCINOGENICITY - Category 1B  
 AQUATIC TOXICITY (ACUTE) - Category 2  
 AQUATIC TOXICITY (CHRONIC) - Category 3

**GHS label elements**

**Hazard pictograms** :

**Signal word** : Danger

**Hazard statements** : May cause cancer.  
 Toxic to aquatic life.  
 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

**Prevention** : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid release to the environment.

**Response** : IF exposed or concerned: Get medical attention.

**Storage** : Store locked up.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture  
**Other means of identification** : Carbon Black Oil, Fuel Oil, Heating Oil

### CAS number/other identifiers

**CAS number** : Not applicable.  
**Product code** : Not available.

| Ingredient name                                  | %       | CAS number |
|--|---------|------------|
| Clarified oils (petroleum), catalytic cracked    | 95 - 99 | 64741-62-4 |
| Distillates (petroleum), heavy catalytic cracked | 30 - 60 | 64741-61-3 |
| Naphthalene                                      | 1 - 5   | 91-20-3    |
| Sulfur   | 1 - 5   | 7704-34-9  |
| Hydrogen sulfide                                 | 0.1 - 1 | 7783-06-4  |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention if symptoms occur.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if symptoms occur.

**Skin contact** : Flush contaminated skin with plenty of water. Get medical attention if symptoms occur.

**Ingestion** : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

### Indication of immediate medical attention and special treatment needed, if necessary

## Section 4. First aid measures

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : None known.

**Specific hazards arising from the chemical** : This material is toxic to aquatic life. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
Sulfur oxides

**Special protective actions for fire-fighters** : No special protection is required.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

### Methods and materials for containment and cleaning up

- Spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see

## Section 6. Accidental release measures

Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

### Control parameters

#### Occupational exposure limits

##### United States

| Ingredient name   | Exposure limits   |
|-------------------|---|
| Naphthalene       | <p><b>ACGIH TLV (United States, 3/2012). Absorbed through skin.</b><br/>           STEL: 79 mg/m<sup>3</sup> 15 minutes.<br/>           STEL: 15 ppm 15 minutes.<br/>           TWA: 52 mg/m<sup>3</sup> 8 hours.<br/>           TWA: 10 ppm 8 hours.</p> <p><b>NIOSH REL (United States, 1/2013).</b><br/>           STEL: 75 mg/m<sup>3</sup> 15 minutes.<br/>           STEL: 15 ppm 15 minutes.<br/>           TWA: 50 mg/m<sup>3</sup> 10 hours.<br/>           TWA: 10 ppm 10 hours.</p> <p><b>OSHA PEL (United States, 6/2010).</b><br/>           TWA: 50 mg/m<sup>3</sup> 8 hours.<br/>           TWA: 10 ppm 8 hours.</p> |
| Hydrogen sulphide | <p><b>ACGIH TLV (United States, 3/2012).</b><br/>           STEL: 5 ppm 15 minutes.<br/>           TWA: 1 ppm 8 hours.</p> <p><b>NIOSH REL (United States, 1/2013).</b><br/>           CEIL: 15 mg/m<sup>3</sup> 10 minutes.<br/>           CEIL: 10 ppm 10 minutes.</p> <p><b>OSHA PEL Z2 (United States, 11/2006).</b><br/>           AMP: 50 ppm 10 minutes.<br/>           CEIL: 20 ppm</p>   |

##### Mexico

## Section 8. Exposure controls/personal protection

| Ingredient name | Exposure limits   |
|-----------------|---|
| Naphthalene     | <b>NOM-010-STPS (Mexico, 9/2000).</b><br>LMPE-CT: 75 mg/m <sup>3</sup> 15 minutes.<br>LMPE-CT: 15 ppm 15 minutes.<br>LMPE-PPT: 50 mg/m <sup>3</sup> 8 hours.<br>LMPE-PPT: 10 ppm 8 hours. |

- Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.
- Individual protection measures**
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

## Section 9. Physical and chemical properties

### Appearance

- Physical state** : Liquid.
- Color** : Brown to black.
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : Not available.
- Melting point** : Not available.
- Boiling point** : 232.22°C (450°F)
- Flash point** : Closed cup: >93.3°C (>199.9°F) [Pensky-Martens.]
- Burning time** : Not applicable.
- Burning rate** : Not applicable.
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not available.

## Section 9. Physical and chemical properties

|   |   |
|---|---|
| <b>Lower and upper explosive (flammable) limits</b> | : Not available.  |
| <b>Vapor pressure</b>                               | : Not available.  |
| <b>Vapor density</b>                                | : Not available.  |
| <b>Relative density</b>                             | : 1.06  |
| <b>Solubility</b>                                   | : Very slightly soluble in the following materials: cold water and hot water. |
| <b>Solubility in water</b>                          | : Not available.  |
| <b>Partition coefficient: n-octanol/water</b>       | : Not available.  |
| <b>Auto-ignition temperature</b>                    | : Not available.  |
| <b>Decomposition temperature</b>                    | : Not available.  |
| <b>SADT</b>   | : Not available.  |
| <b>Viscosity</b>                                    | : Kinematic (room temperature): 0.204 cm <sup>2</sup> /s (20.4 cSt)           |

## Section 10. Stability and reactivity

|   |  |
|---|--|
| <b>Reactivity</b>                         | : No specific test data related to reactivity available for this product or its ingredients.                                     |
| <b>Chemical stability</b>                 | : The product is stable.   |
| <b>Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.  |
| <b>Conditions to avoid</b>                | : No specific data.  |
| <b>Incompatible materials</b>             | : Reactive or incompatible with the following materials: oxidizing materials, reducing materials, organic materials and alkalis. |
| <b>Hazardous decomposition products</b>   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced.                           |

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name                       | Result                | Species | Dose                  | Exposure |
|---|-----------------------|---------|-----------------------|----------|
| Clarified oils (petroleum), catalytic cracked | LD50 Oral             | Rat     | 4300 mg/kg            | -        |
| Naphthalene                                   | LD50 Dermal           | Rabbit  | >20 g/kg              | -        |
|   | LD50 Oral             | Rat     | 490 mg/kg             | -        |
| Hydrogen sulfide                              | LC50 Inhalation Gas.  | Rat     | 444 ppm               | 4 hours  |
|   | LC50 Inhalation Vapor | Rat     | 700 mg/m <sup>3</sup> | 4 hours  |

#### Irritation/Corrosion

| Product/ingredient name | Result                 | Species | Score | Exposure         | Observation |
|-------------------------|------------------------|---------|-------|------------------|-------------|
| Naphthalene             | Skin - Mild irritant   | Rabbit  | -     | 495 mg           | -           |
|                         | Skin - Severe irritant | Rabbit  | -     | 24 hours 0.05 mL | -           |

#### Sensitization

There is no data available.

#### Mutagenicity

## Section 11. Toxicological information

There is no data available.

### Carcinogenicity

#### Classification

| Product/ingredient name | OSHA | IARC | ACGIH | NTP  |
|-------------------------|------|------|-------|--|
| Naphthalene             | -    | 2B   | A4    | Reasonably anticipated to be a human carcinogen. |

### Reproductive toxicity

There is no data available.

### Teratogenicity

There is no data available.

### Specific target organ toxicity (single exposure)

There is no data available.

### Specific target organ toxicity (repeated exposure)

There is no data available.

### Aspiration hazard

There is no data available.

**Information on the likely routes of exposure** : Dermal contact. Eye contact. Inhalation. Ingestion.

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : No known significant effects or critical hazards.  
**Potential delayed effects** : No known significant effects or critical hazards.

#### Long term exposure

**Potential immediate effects** : No known significant effects or critical hazards.  
**Potential delayed effects** : No known significant effects or critical hazards.

### Potential chronic health effects

**General** : No known significant effects or critical hazards.  
**Carcinogenicity** : May cause cancer. Risk of cancer depends on duration and level of exposure.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity** : No known significant effects or critical hazards.



## Section 11. Toxicological information

**Developmental effects** : No known significant effects or critical hazards.

**Fertility effects** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

| Route | ATE value    |
|-------|--------------|
| Oral  | 6365.6 mg/kg |

## Section 12. Ecological information

### Toxicity

| Product/ingredient name | Result                            | Species                                      | Exposure |
|-------------------------|-----------------------------------|--|----------|
| Naphthalene             | Acute EC50 1600 µg/l Fresh water  | Daphnia - Daphnia magna - Neonate            | 48 hours |
|                         | Acute LC50 2350 µg/l Marine water | Crustaceans - Palaemonetes pugio             | 48 hours |
| Sulfur                  | Acute LC50 213 µg/l Fresh water   | Fish - Melanotaenia fluviatilis - Larvae     | 96 hours |
|                         | Acute EC50 >5000 ppm Fresh water  | Daphnia - Daphnia magna                      | 48 hours |
| Hydrogen sulfide        | Acute LC50 14 ppm Fresh water     | Fish - Lepomis macrochirus                   | 96 hours |
|                         | Acute EC50 62 µg/l Fresh water    | Crustaceans - Gammarus pseudolimnaeus        | 2 days   |
|                         | Acute LC50 2 µg/l Fresh water     | Fish - Coregonus clupeaformis - Yolk-sac fry | 96 hours |

### Persistence and degradability

There is no data available.

### Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF         | Potential |
|-------------------------|--------------------|-------------|-----------|
| Naphthalene             | 3.3                | 85.11380382 | low       |

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : There is no data available.

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.






## Section 13. Disposal considerations

### United States - RCRA Toxic hazardous waste "U" List

| Ingredient  | CAS #   | Status | Reference number |
|-------------|---------|--------|------------------|
| Naphthalene | 91-20-3 | Listed | U165             |

## Section 14. Transport information

|                            | DOT Classification   | IMDG   | IATA   |
|----------------------------|--|--|--|
| UN number                  | UN3257   | UN3257   | UN3257   |
| UN proper shipping name    | ELEVATED TEMPERATURE LIQUID, N. O.S. (Naphthalene) RQ (Naphthalene, Hydrogen sulphide)   | ELEVATED TEMPERATURE LIQUID, N. O.S. (Naphthalene)                                     | ELEVATED TEMPERATURE LIQUID, N. O.S. (Naphthalene)                                       |
| Transport hazard class(es) | 9<br>   | 9<br> | 9<br> |
| Packing group              | III  | III  | III  |
| Environmental hazards      | No.  | No.  | No.  |
| Additional information     | <b>Reportable quantity</b><br>5000 lbs / 2270 kg [565.73 gal / 2141.5 L]<br>The classification of the product is due solely to the presence of one or more US DOT-listed 'Hazardous substances' that are subject to reportable quantity requirements and only applies to shipments of packages greater than, or equal to, the product reportable quantity. Package sizes less than the product reportable quantity are not regulated as hazardous materials. | <b>Emergency schedules (EmS)</b><br>F-A, S-P   | -  |

AERG : 128

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** : TSCA 8(a) PAIR: Naphthalene  
 TSCA 8(a) CDR Exempt/Partial exemption: Not determined  
 United States inventory (TSCA 8b): All components are listed or exempted.  
 Clean Water Act (CWA) 307: Naphthalene  
 Clean Water Act (CWA) 311: Naphthalene; Hydrogen sulfide

## Section 15. Regulatory information

**Clean Air Act Section 112** : Listed

**(b) Hazardous Air Pollutants (HAPs)**

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

| Name             | %       | EHS  | SARA 302 TPQ |           | SARA 304 RQ |           |
|------------------|---------|------|--------------|-----------|-------------|-----------|
|                  |         |      | (lbs)        | (gallons) | (lbs)       | (gallons) |
| Hydrogen sulfide | 0.1 - 1 | Yes. | 100          | -         | 500         | -         |

**SARA 304 RQ** : 250000 lbs / 113500 kg [28286.3 gal / 107075.5 L]

### SARA 311/312

**Classification** : Delayed (chronic) health hazard

#### Composition/information on ingredients

| Name  | %       | Fire hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|---|---------|-------------|----------------------------|----------|---------------------------------|---------------------------------|
| Clarified oils (petroleum),catalytic cracked    | 95 - 99 | No.         | No.                        | No.      | No.                             | Yes.                            |
| Distillates (petroleum),heavy catalytic cracked | 30 - 60 | No.         | No.                        | No.      | No.                             | Yes.                            |
| Naphthalene                                     | 1 - 5   | No.         | No.                        | No.      | Yes.                            | Yes.                            |
| Sulfur  | 1 - 5   | No.         | No.                        | No.      | Yes.                            | No.                             |
| Hydrogen sulfide                                | 0.1 - 1 | Yes.        | Yes.                       | No.      | Yes.                            | No.                             |

### SARA 313

|  | Product name | CAS number | %     |
|--|--------------|------------|-------|
| <b>Form R - Reporting requirements</b> | Naphthalene  | 91-20-3    | 1 - 5 |
| <b>Supplier notification</b>           | Naphthalene  | 91-20-3    | 1 - 5 |

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

### State regulations

**Massachusetts** : The following components are listed: Naphthalene; Sulfur

**New York** : The following components are listed: Naphthalene

**New Jersey** : The following components are listed: Naphthalene; Sulfur

**Pennsylvania** : The following components are listed: Naphthalene; Sulfur

### California Prop. 65

**WARNING:** This product contains a chemical known to the State of California to cause cancer.

## Section 15. Regulatory information

| Ingredient name | Cancer | Reproductive | No significant risk level | Maximum acceptable dosage level |
|-----------------|--------|--------------|---------------------------|---------------------------------|
| Naphthalene     | Yes.   | No.          | Yes.                      | No.                             |

### Mexico

Classification :



### International regulations

**International lists** :

- Australia inventory (AICS):** All components are listed or exempted.
- China inventory (IECSC):** All components are listed or exempted.
- Japan inventory:** Not determined.
- Korea inventory:** All components are listed or exempted.
- Malaysia Inventory (EHS Register):** Not determined.
- New Zealand Inventory of Chemicals (NZIoC):** Not determined.
- Philippines inventory (PICCS):** Not determined.
- Taiwan inventory (CSNN):** Not determined.

**Chemical Weapons Convention List Schedule I Chemicals** : Not listed

**Chemical Weapons Convention List Schedule II Chemicals** : Not listed

**Chemical Weapons Convention List Schedule III Chemicals** : Not listed

## Section 16. Other information

### History

**Date of issue mm/dd/yyyy** : 10/15/2013

**Version** : 1

**Revised Section(s)** : Not applicable.

**Prepared by** : KMK Regulatory Services Inc.

**Key to abbreviations** :

- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- UN = United Nations

## Section 16. Other information

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.